

STANDARD SEARCH AND RESCUE AIRCRAFT POSITION REPORT (MESSAGE 9)

This message should be used as a standard position report for aircraft involved in SAR operations. Stations other than aircraft involved in SAR operations should not transmit this message. The default reporting interval for this message should be 10 s.

Parameter	Number of bits	Description
Message ID	6	Identifier for Message 9; always 9
Repeat indicator	2	Used by the repeater to indicate how many times a message has been repeated. 0-3; 0 = default; 3 = do not repeat any more
User ID	30	MMSI number
Altitude (GNSS)	12	Altitude (derived from GNSS or barometric (see altitude sensor parameter below)) (m) (0-4 094 m) 4 095 = not available, 4 094 = 4 094 m or higher
SOG	10	Speed over ground in knot steps (0-1 022 knots) 1 023 = not available, 1 022 = 1 022 knots or higher
Position accuracy	1	1 = high (≤ 10 m) 0 = low (> 10 m) 0 = default
Longitude	28	Longitude in 1/10 000 min ($\pm 180^\circ$, East = positive (as per 2's complement), West = negative (as per 2's complement); 181 = (6791AC0 _h) = not available = default)
Latitude	27	Latitude in 1/10 000 min ($\pm 90^\circ$, North = positive (as per 2's complement), South = negative (as per 2's complement); 91 = (3412140 _h) = not available = default)
COG	12	Course over ground in 1/10 = (0-3 599). 3 600 (E10 _h) = not available = default; 3 601-4 095 should not be used
Time stamp	6	UTC second when the report was generated by the EPFS (0-59 or 60 if time stamp is not available, which should also be the default value or 61 if positioning system is in manual input mode or 62 if electronic position fixing system operates in estimated (dead reckoning) mode or 63 if the positioning system is inoperative)
Altitude sensor	1	0 = GNSS 1 = barometric source
Spare	7	Not used. Should be set to zero. Reserved for future use
DTE	1	Data terminal ready (0 = available 1 = not available = default)
Spare	3	Not used. Should be set to zero. Reserved for future use
Assigned mode flag	1	0 = Station operating in autonomous and continuous mode = default 1 = Station operating in assigned mode
RAIM-flag	1	RAIM flag of electronic position fixing device; 0 = RAIM not in use = default; 1 = RAIM in use
Communication	1	0 = SOTDMA communication state follows

state selector flag		1 = ITDMA communication state follows
Communication state	19	SOTDMA communication state if communication state selector flag is set to 0, or ITDMA communication state if communication state selector flag is set to 1
Number of bits	168	

(Source: [Rec. ITU-R M.1371-5](#))